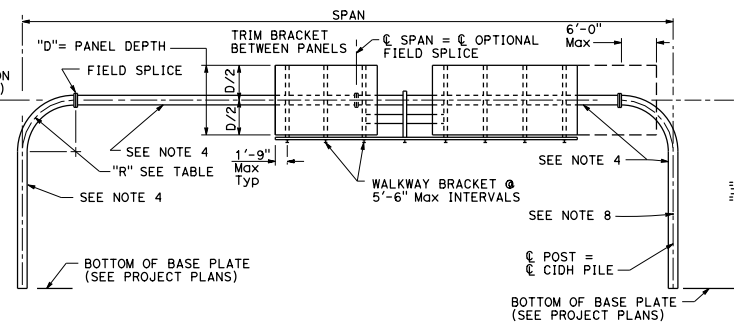
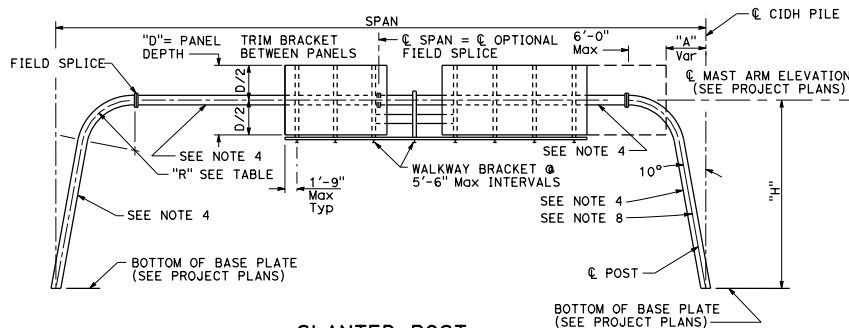
**ABBREVIATION:**

R = Radius of 90° elbow

**TABLE A**

"D" PANEL DEPTH	"H" POST HEIGHT	POST TYPE No. FOR SPAN LENGTH BELOW									
		140'-0" TO 145'-0"	130'-0" TO 139'-0"	120'-0" TO 129'-0"	110'-0" TO 119'-0"	100'-0" TO 109'-0"	90'-0" TO 99'-0"	80'-0" TO 89'-0"	70'-0" TO 79'-0"	60'-0" TO 69'-0"	50'-0" TO 59'-0"
120"	29'-0"	VI	VI	VI	VI	V	V	IV	III	III	II
	27'-0"	VI	VI	VI	V	V	IV	IV	III	III	II
	25'-0"	VI	VI	V	V	IV	IV	III	III	II	II
	23'-0"	VI	V	V	IV	IV	IV	III	II	II	I
	21'-0"	V	V	IV	IV	IV	III	III	II	II	I
110"	29'-0"	VI	VI	VI	V	V	IV	IV	III	III	II
	27'-0"	VI	VI	V	V	IV	IV	III	III	II	II
	25'-0"	V	V	V	IV	IV	IV	III	II	II	I
	23'-0"	V	V	IV	IV	IV	III	III	II	II	I
	21'-0"	V	V	IV	IV	III	III	II	II	II	I
100"	29'-0"	VI	V	V	V	IV	IV	III	III	II	II
	27'-0"	V	V	V	IV	IV	IV	III	II	II	I
	25'-0"	V	V	IV	IV	IV	III	III	II	II	I
	23'-0"	V	IV	IV	IV	III	III	II	II	II	I
	21'-0"	V	IV	IV	III	III	II	II	I	I	I
90"	29'-0"	V	V	V	IV	IV	III	III	II	II	I
	27'-0"	V	V	IV	IV	IV	III	II	II	I	I
	25'-0"	IV	IV	IV	III	III	III	II	I	I	I
	23'-0"	IV	IV	IV	III	III	II	II	I	I	I
	21'-0"	IV	IV	III	III	II	II	I	I	I	I
80"	29'-0"	V	IV	IV	IV	III	III	II	II	I	I
	27'-0"	IV	IV	IV	III	III	II	II	I	I	I
	25'-0"	IV	IV	IV	III	III	II	II	I	I	I
	23'-0"	IV	IV	III	III	II	II	I	I	I	I
	21'-0"	IV	III	III	II	II	I	I	I	I	I
70"	29'-0"	IV	IV	IV	III	III	II	II	I	I	I
	27'-0"	IV	IV	III	III	II	II	I	I	I	I
	25'-0"	III	III	III	II	II	I	I	I	I	I
	23'-0"	III	III	II	II	II	I	I	I	I	I
	21'-0"	III	III	II	II	II	I	I	I	I	I

NOTES:

- The maximum sign panel overlap onto elbow shall not exceed 6'-0" from the field splice.
- When several sign panels are to be installed with spaces between panels, the total sign panel length is the sum of individual sign panel lengths only.
- For spans ranging from 50'-0" to 145'-0", maximum sign panel coverage is as follows:
 - For slanted post type: Span - "A" on both sides from ϕ of CIDH Pile.
 - For vertical post type: Span - 6'-0" on both sides from ϕ of CIDH Pile.
- All posts between base plate and field plate splice shall be as scheduled in table. All mast arms are standard pipe.
- Before any portion of sign frame is assembled in its final position, the Contractor shall demonstrate to the Engineer by preassembly or other approved methods that the span length of the frame, with no load condition, is within $\pm 1/2$ " of field measured span length between foundations.
- If sign frames are erected as one unit, they shall be adequately suspended to avoid distortions or changes in span lengths between base plates.
- At final position of post, all top and bottom anchor bolt nuts shall be snug tighten against base plate.
- Drill and tap for 1 1/2" C chase nipple and plug with recessed pipe plugs. Place perpendicular to sign panel axis and away from approaching traffic. See Standard Plan ES-15C.
- Maximum difference between post heights on an individual frame = 5'-0".
- For standard pipe members (mast arms) with lengths greater than 78'-9", an optional field splice will be permitted at the centerline of span to facilitate hauling operations.
- For location of optional welded splice in post, see Standard Plan S31.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL No. SHEETS

Stanley P. Johnson
 REGISTERED CIVIL ENGINEER
 No. C57795
 October 30, 2015
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS
 OR AGENTS SHALL NOT BE RESPONSIBLE FOR
 THE ACCURACY OR COMPLETENESS OF SCANNED
 COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
 Stanley P. Johnson
 No. C57795
 Exp. 3-31-16
 CIVIL
 STATE OF CALIFORNIA

TABLE B

POST TYPE No.	PIPE		"R" RADIUS
	NPS	THICKNESS	
I	20	1/2"	12'-0"
II	24	1/2"	
III	24	5/8"	
IV	30	1/2"	
V	30	5/8"	
VI	30	3/4"	

TABLE C

POST TYPE No.	CAMBER		X	Y
	SPAN LENGTH			
II	50'-0" TO 119'-0"	2 1/4"	3 1/2"	
II	120'-0" TO 145'-0"	3 3/4"	5"	
III	50'-0" TO 119'-0"	2 1/4"	3 1/2"	
III	120'-0" TO 145'-0"	3 3/4"	5"	
IV	50'-0" TO 119'-0"	2 1/4"	3 1/2"	
IV	120'-0" TO 145'-0"	3 3/4"	5"	
V	50'-0" TO 119'-0"	2 1/4"	3 1/2"	
V	120'-0" TO 145'-0"	3 3/4"	5"	
VI	50'-0" TO 119'-0"	2 1/4"	3 1/2"	
VI	120'-0" TO 145'-0"	3 3/4"	5"	

 STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

**OVERHEAD SIGNS-TUBULAR
 TWO POST TYPE
 LAYOUT AND PIPE SELECTION**

NO SCALE

S32